



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

D2579

Job Sheet 195270



Part No: D2579

Job Qty: 50 pcs

Part Name: Crossbolt Spacer



Part Weight: 0 lbs

Job Created: 5/16/19

Due Date: 9/6/19

Type: Stock

Status: New

Priority: Medium

Job Tracking No:

Created By: Kimberley Guerin

Description:

Note: DWG REV E IPP E 02.06.17 Now turned on Cobra NG IPP F 07.07.06 rev E dwg EC

Ship Via:

## Bill of Materials

## Job Routing

| Op<br>No | Operation                     | Qty    | Start Date | Due<br>Date | Standard     |            | Workcenter/Supplier    |           | Sign-off |
|----------|-------------------------------|--------|------------|-------------|--------------|------------|------------------------|-----------|----------|
|          |                               |        |            |             | Setup<br>Hrs | Run<br>Hrs | Workcenter / Supplier  | Lead Time |          |
| 125      | Purchasing                    | 50 pcs |            | 9/6/19      | 0.00         | 0.00       | Purchasing - 1         |           |          |
|          |                               |        |            |             |              |            | Purchasing - 2         |           |          |
|          |                               |        |            |             |              |            | Purchasing - 3         |           |          |
| 130      | Packaging 2-1 - Receive - B4B | 50 pcs |            | 9/6/19      | 0.00         | 0.00       | Packaging 2 - 1 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 2 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 3 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 5 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 4 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 6 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 7 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 8 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 9 - B4B  |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 10 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 11 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 12 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 13 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 14 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 15 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 16 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 17 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 18 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 19 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 20 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 21 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 22 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 23 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 24 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 25 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 26 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 27 - B4B |           |          |
|          |                               |        |            |             |              |            | Packaging 2 - 28 - B4B |           |          |



Dart Aerospace Ltd.  
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CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Container No: S213202



Part: D2579

Job No: 195270

Serial No/Batch: S213202

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 08/12/18

Plex 5/16/19 3:13 PM Dart Guerin, Kimberley

5/16/2019

[Dart Hawkesbury] Job Sheet - Guerin, Kimberley

|                                                                                                                                                                                                                                                  |                  |              |                |                        |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|----------------|------------------------|----------------|
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 29 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 30 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 31 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 32 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 33 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 34 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 35 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 2 - 36 - B4B |                |
| 135 QC 6                                                                                                                                                                                                                                         | 50 pcs           | 9/6/19       | 0.00 0.00      | QC 6 - 9               |                |
|                                                                                                                                                                                                                                                  |                  |              |                | QC 6 - 68              | DAS            |
|                                                                                                                                                                                                                                                  |                  |              |                | QC 6 - 61              | 81             |
|                                                                                                                                                                                                                                                  |                  |              |                | QC 6 - 40              | 9-89           |
| 140 Packaging 3-1 - Stock - B4B                                                                                                                                                                                                                  | 50 pcs ✓         | 9/6/19       | 0.00 0.00      | Packaging 3 - 1 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 2 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 3 - B4B  | LG 004         |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 4 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 5 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 6 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 7 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 8 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 9 - B4B  |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 10 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 11 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 12 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 13 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 14 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 15 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 16 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 17 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 18 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 19 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 20 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 21 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 22 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 23 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 24 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 25 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 26 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 27 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 28 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 29 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 30 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 31 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 32 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 33 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 34 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 35 - B4B |                |
|                                                                                                                                                                                                                                                  |                  |              |                | Packaging 3 - 36 - B4B |                |
| 150 QC 21 - SA                                                                                                                                                                                                                                   | 50 pcs ✓         | 9/6/19       | 0.00 0.00      | QC 21 - SA - 21        | LG-004 DAS     |
|                                                                                                                                                                                                                                                  |                  |              |                | QC 21 - SA - 70        | SEP 16 2019 70 |
|                                                                                                                                                                                                                                                  |                  |              |                | QC 21 - SA - 53        | 9-89           |
| Part Op. 125 - ISSUE P/O: <u>43487</u> SUPPLIER: E.T.M. INDUSTRIES INC. MANUFACTURE AS PER DWG<br>Descriptions: C OF C IS REQUIRED<br>140 - (Identify as per dwg & Stock Location: _____)<br>150 - (QC21- Final Inspection - Work Order Release) |                  |              |                |                        |                |
| <b>Job BOM</b>                                                                                                                                                                                                                                   |                  |              |                |                        |                |
| Part / Item                                                                                                                                                                                                                                      | Component Name   | Quantity     | Operation      | Container              |                |
| D2579P                                                                                                                                                                                                                                           | Crossbolt Spacer | 50 Ea (1 ea) | 125-Purchasing | S213199                |                |

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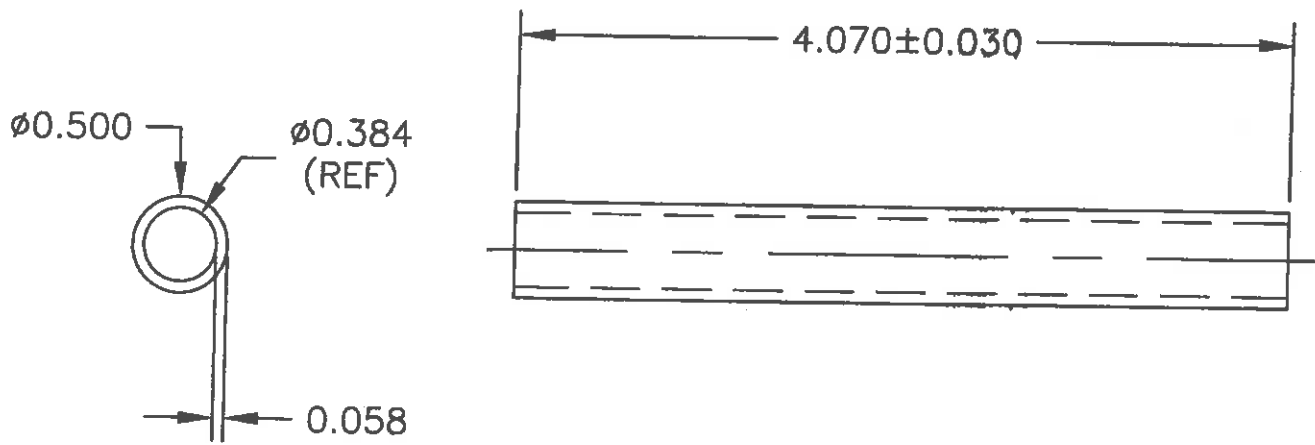
| Job Allocations             |                          |                     |                |                |                  |
|-----------------------------|--------------------------|---------------------|----------------|----------------|------------------|
| Operation<br>125-Purchasing | Component Part<br>D2579P | Required<br>50      | Inventory<br>0 | Allocated<br>0 |                  |
| Part Specifications         |                          |                     |                |                |                  |
| Spec No                     | Description              | Target/Tolerance    | Limits         | Type           | Special Comments |
| 1                           | Crossbolt Spacer         | 4.070inches ± 0.030 | 4.100<br>4.040 |                |                  |
| 2                           | Crossbolt Spacer         | 0.058inches ± 0.010 | 0.068<br>0.048 |                |                  |

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|                  |                |                                                   |                        |
|------------------|----------------|---------------------------------------------------|------------------------|
| DESIGN<br>#      | DRAWN BY<br>RA | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA |                        |
| CHECKED<br>#     | APPROVED<br>#  | DRAWING NO.<br>D2579                              | REV. E<br>SHEET 1 OF 1 |
| DATE<br>07.04.17 |                | TITLE<br>CROSS BOLT SPACER                        | SCALE<br>1:1           |
| A                | 96.09.16       | NEW ISSUE                                         |                        |
| B                | 96.12.05       | 0.065 WALL WAS 0.035 WALL                         |                        |
| C                | 97.02.21       | 0.058 WALL WAS 0.065 WALL                         |                        |
| D                | 99.05.19       | 4.070 LENGTH WAS 4.100 (TSR A1095)                |                        |
| E                | 07.04.17       | UPDATE NOTES                                      |                        |

RELEASED  
07.06.28



**D2579 CROSS BOLT SPACER**

**D2579 CROSS BOLT SPACER**

- 1) MATERIAL: 6061-T6 TUBING PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8  
(REF DART SPEC M6061T6T0500W058)
- 2) FINISH: NONE
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
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Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB043487



**Supplier:** ETM001-VC  
E.T.M. Industries Inc.  
310 Hall Avenue, Box 610  
Renfrew  
ON  
K7V 4E7 Canada  
Phone: 613-432-6136  
Fax: 613-432-8212

**PO No:** POHB043487  
**PO Date:** 5/17/19  
**Due Date:** 5/15/20  
**Purchase Order**  
**Revision:**  
**Revision Date:**  
**Ship-To Contact:** Phone:

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground  
**Pymt Terms:** Net 30  
**Freight Terms:**  
**Special Comments:**

### Items

| Line Item | Job    | Part     | Supplier Part No | Item No | Description                                 | Status | Account | Due Date              | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|----------|------------------|---------|---------------------------------------------|--------|---------|-----------------------|----------------|-------------------|---------|------------------|----------------|
| 1         | 195270 | D2579P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2579 RevE | Firmed | -       | 9/6/19<br>SEP 12 2019 | 50 Ea          | 0 Ea              | 50 Ea   | \$2.90/Ea        | \$145.00       |
| 2         | 195283 | D2579P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2579 RevE | Firmed | -       | 11/15/19              | 50 Ea          | 0 Ea              | 50 Ea   | \$2.90/Ea        | \$145.00       |
| 3         | 195294 | D2579P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2579 RevE | Firmed | -       | 2/14/20               | 50 Ea          | 0 Ea              | 50 Ea   | \$2.90/Ea        | \$145.00       |
| 4         | 195305 | D2579P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2579 RevE | Firmed | -       | 5/15/20               | 50 Ea          | 0 Ea              | 50 Ea   | \$2.90/Ea        | \$145.00       |
| 5         | 195271 | D3681-1P |                  |         | Spacer<br>: as per Dwg D3681-1 RevA         | Firmed | -       | 9/6/19<br>AUG 30 2019 | 250 Ea         | 0 Ea              | 250 Ea  | \$3.75/Ea        | \$937.50       |
| 6         | 195284 | D3681-1P |                  |         | Spacer<br>: as per Dwg D3681-1 RevA         | Firmed | -       | 11/15/19              | 250 Ea         | 0 Ea              | 250 Ea  | \$3.75/Ea        | \$937.50       |
| 7         | 195295 | D3681-1P |                  |         | Spacer<br>: as per Dwg D3681-1 RevA         | Firmed | -       | 2/14/20               | 250 Ea         | 0 Ea              | 250 Ea  | \$3.75/Ea        | \$937.50       |

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# PURCHASE ORDER

## POHB043487



| Items     |        |          |                  |         |                                                        |        |         |             |                |                   |         |                  |                |
|-----------|--------|----------|------------------|---------|--------------------------------------------------------|--------|---------|-------------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Job    | Part     | Supplier Part No | Item No | Description                                            | Status | Account | Due Date    | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 8         | 195306 | D3681-1P |                  |         | Spacer<br>: as per Dwg<br>D3681-1<br>RevA              | Firmed | -       | 5/15/20     | 250 Ea         | 0 Ea              | 250 Ea  | \$3.75/Ea        | \$937.50       |
| 9         | 195272 | D3903-1P |                  |         | Spacer<br>: as per Dwg<br>D3903-1<br>RevB              | Firmed | -       | 9/6/19      | 200 Ea         | 0 Ea              | 200 Ea  | \$3.75/Ea        | \$750.00       |
|           |        |          |                  |         |                                                        |        | 200     | SEP 04 2019 |                |                   |         | 2.18 d<br>vs     |                |
| 10        | 195285 | D3903-1P |                  |         | Spacer<br>: as per Dwg<br>D3903-1<br>RevB              | Firmed | -       | 11/15/19    | 200 Ea         | 0 Ea              | 200 Ea  | \$3.75/Ea        | \$750.00       |
| 11        | 195296 | D3903-1P |                  |         | Spacer<br>: as per Dwg<br>D3903-1<br>RevB              | Firmed | -       | 2/14/20     | 200 Ea         | 0 Ea              | 200 Ea  | \$3.75/Ea        | \$750.00       |
| 12        | 195307 | D3903-1P |                  |         | Spacer<br>: as per Dwg<br>D3903-1<br>RevB              | Firmed | -       | 5/15/20     | 200 Ea         | 0 Ea              | 200 Ea  | \$3.75/Ea        | \$750.00       |
| 13        | 195273 | D3490-1P |                  |         | Crossbolt<br>Spacer<br>: as per Dwg<br>D3490-1<br>RevA | Firmed | -       | 9/6/19      | 100 Ea         | 0 Ea              | 100 Ea  | \$3.90/Ea        | \$390.00       |
|           |        |          |                  |         |                                                        |        | X101    | 2019-08-28  | 101            |                   |         | 4.25 d<br>vs     | DP             |
| 14        | 195286 | D3490-1P |                  |         | Crossbolt<br>Spacer<br>: as per Dwg<br>D3490-1<br>RevA | Firmed | -       | 11/15/19    | 100 Ea         | 0 Ea              | 100 Ea  | \$3.90/Ea        | \$390.00       |
| 15        | 195297 | D3490-1P |                  |         | Crossbolt<br>Spacer<br>: as per Dwg<br>D3490-1<br>RevA | Firmed | -       | 2/14/20     | 100 Ea         | 0 Ea              | 100 Ea  | \$3.90/Ea        | \$390.00       |
| 16        | 195308 | D3490-1P |                  |         | Crossbolt<br>Spacer<br>: as per Dwg<br>D3490-1<br>RevA | Firmed | -       | 5/15/20     | 100 Ea         | 0 Ea              | 100 Ea  | \$3.90/Ea        | \$390.00       |
| 17        | 195275 | D2743P   |                  |         | Crossbolt<br>Spacer<br>: as per Dwg<br>D2743 RevB      | Firmed | -       | 9/6/19      | 250 Ea         | 0 Ea              | 250 Ea  | \$2.95/Ea        | \$737.50       |
|           |        |          |                  |         |                                                        |        |         |             |                |                   |         | 2.15 d<br>vs     |                |

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# PURCHASE ORDER

## POHB043487



| Items     |        |          |                  |         |                                                |        |         |          |                |                   |         |                            |                |
|-----------|--------|----------|------------------|---------|------------------------------------------------|--------|---------|----------|----------------|-------------------|---------|----------------------------|----------------|
| Line Item | Job    | Part     | Supplier Part No | Item No | Description                                    | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD)           | Extended Price |
| 18        | 195287 | D2743P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2743 RevB    | Firmed | -       | 11/15/19 | 250 Ea         | 0 Ea              | 250 Ea  | \$2.95/Ea                  | \$737.50       |
| 19        | 195298 | D2743P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2743 RevB    | Firmed | -       | 2/14/20  | 250 Ea         | 0 Ea              | 250 Ea  | \$2.95/Ea                  | \$737.50       |
| 20        | 195309 | D2743P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2743 RevB    | Firmed | -       | 5/15/20  | 250 Ea         | 0 Ea              | 250 Ea  | \$2.95/Ea                  | \$737.50       |
| 21        | 195276 | D2649P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2649 RevB1   | Firmed | -       | 9/6/19   | 75 Ea          | 0 Ea              | 75 Ea   | \$2.25/Ea<br>1.39 \$<br>vs | \$168.75       |
| 22        | 195288 | D2649P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2649 RevB1   | Firmed | -       | 11/15/19 | 75 Ea          | 0 Ea              | 75 Ea   | \$2.25/Ea                  | \$168.75       |
| 23        | 195299 | D2649P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2649 RevB1   | Firmed | -       | 2/14/20  | 75 Ea          | 0 Ea              | 75 Ea   | \$2.25/Ea                  | \$168.75       |
| 24        | 195310 | D2649P   |                  |         | Crossbolt Spacer<br>: as per Dwg D2649 RevB1   | Firmed | -       | 5/15/20  | 75 Ea          | 0 Ea              | 75 Ea   | \$2.25/Ea                  | \$168.75       |
| 25        | 195277 | D3275-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D3275-1 RevA1 | Firmed | -       | 9/6/19   | 62 Ea          | 0 Ea              | 62 Ea   | \$2.25/Ea<br>1.03 \$<br>vs | \$139.50       |
| 26        | 195289 | D3275-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D3275-1 RevA1 | Firmed | -       | 11/15/19 | 62 Ea          | 0 Ea              | 62 Ea   | \$2.25/Ea                  | \$139.50       |

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# PURCHASE ORDER

## POHB043487



| Items     |        |          |                  |         |                                                |        |         |          |                |                   |         |                            |                |
|-----------|--------|----------|------------------|---------|------------------------------------------------|--------|---------|----------|----------------|-------------------|---------|----------------------------|----------------|
| Line Item | Job    | Part     | Supplier Part No | Item No | Description                                    | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD)           | Extended Price |
| 27        | 195300 | D3275-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D3275-1 RevA1 | Firmed | -       | 2/14/20  | 62 Ea          | 0 Ea              | 62 Ea   | \$2.25/Ea                  | \$139.50       |
| 28        | 195311 | D3275-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D3275-1 RevA1 | Firmed | -       | 5/15/20  | 62 Ea          | 0 Ea              | 62 Ea   | \$2.25/Ea                  | \$139.50       |
| 29        | 195278 | D5518-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D5518-1 RevA  | Firmed | -       | 9/6/19   | 50 Ea          | 0 Ea              | 50 Ea   | \$2.20/Ea<br>6.75 \$<br>VS | \$110.00       |
| 30        | 195290 | D5518-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D5518-1 RevA  | Firmed | -       | 11/15/19 | 50 Ea          | 0 Ea              | 50 Ea   | \$2.20/Ea                  | \$110.00       |
| 31        | 195301 | D5518-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D5518-1 RevA  | Firmed | -       | 2/14/20  | 50 Ea          | 0 Ea              | 50 Ea   | \$2.20/Ea                  | \$110.00       |
| 32        | 195312 | D5518-1P |                  |         | Crossbolt Spacer<br>: as per Dwg D5518-1 RevA  | Firmed | -       | 5/15/20  | 50 Ea          | 0 Ea              | 50 Ea   | \$2.20/Ea                  | \$110.00       |
| 33        | 195279 | D4202-1P |                  |         | Spacer<br>: as per Dwg D4202-1 RevD            | Firmed | -       | 9/6/19   | 750 Ea         | 0 Ea              | 750 Ea  | \$3.10/Ea<br>4.34 \$<br>VS | \$2,325.00     |
| 34        | 195291 | D4202-1P |                  |         | Spacer<br>: as per Dwg D4202-1 RevD            | Firmed | -       | 11/15/19 | 750 Ea         | 0 Ea              | 750 Ea  | \$3.10/Ea                  | \$2,325.00     |
| 35        | 195302 | D4202-1P |                  |         | Spacer<br>: as per Dwg D4202-1 RevD            | Firmed | -       | 2/14/20  | 750 Ea         | 0 Ea              | 750 Ea  | \$3.10/Ea                  | \$2,325.00     |

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberle





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER POHB043487



| Items        |        |          |                  |         |                                           |        |         |          |                |                   |         |                            |                |
|--------------|--------|----------|------------------|---------|-------------------------------------------|--------|---------|----------|----------------|-------------------|---------|----------------------------|----------------|
| Line Item    | Job    | Part     | Supplier Part No | Item No | Description                               | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD)           | Extended Price |
| 36           | 195313 | D4202-1P |                  |         | Spacer<br>: as per Dwg<br>D4202-1<br>RevD | Firmed | -       | 5/15/20  | 750 Ea         | 0 Ea              | 750 Ea  | \$3.10/Ea                  | \$2,325.00     |
| 37           | 195280 | D4720-1P |                  |         | Spacer<br>: as per Dwg<br>D4720-1<br>RevB | Firmed | -       | 9/6/19   | 250 Ea         | 0 Ea              | 250 Ea  | \$3.00/Ea<br>2.40/Ea<br>US | \$750.00       |
| 38           | 195292 | D4720-1P |                  |         | Spacer<br>: as per Dwg<br>D4720-1<br>RevB | Firmed | -       | 11/15/19 | 250 Ea         | 0 Ea              | 250 Ea  | \$3.00/Ea                  | \$750.00       |
| 39           | 195303 | D4720-1P |                  |         | Spacer<br>: as per Dwg<br>D4720-1<br>RevB | Firmed | -       | 2/14/20  | 250 Ea         | 0 Ea              | 250 Ea  | \$3.00/Ea                  | \$750.00       |
| 40           | 195314 | D4720-1P |                  |         | Spacer<br>: as per Dwg<br>D4720-1<br>RevB | Firmed | -       | 5/15/20  | 250 Ea         | 0 Ea              | 250 Ea  | \$3.00/Ea                  | \$750.00       |
| 41           | 195281 | D4686-1P |                  |         | Spacer<br>: as per Dwg<br>D4686-1<br>RevB | Firmed | -       | 9/6/19   | 75 Ea          | 0 Ea              | 75 Ea   | \$3.75/Ea<br>7.65/Ea<br>US | \$281.25       |
| 42           | 195293 | D4686-1P |                  |         | Spacer<br>: as per Dwg<br>D4686-1<br>RevB | Firmed | -       | 11/15/19 | 75 Ea          | 0 Ea              | 75 Ea   | \$3.75/Ea                  | \$281.25       |
| 43           | 195304 | D4686-1P |                  |         | Spacer<br>: as per Dwg<br>D4686-1<br>RevB | Firmed | -       | 2/14/20  | 75 Ea          | 0 Ea              | 75 Ea   | \$3.75/Ea                  | \$281.25       |
| 44           | 195315 | D4686-1P |                  |         | Spacer<br>: as per Dwg<br>D4686-1<br>RevB | Firmed | -       | 5/15/20  | 75 Ea          | 0 Ea              | 75 Ea   | \$3.75/Ea                  | \$281.25       |
| Grand Total: |        |          |                  |         |                                           |        |         |          |                |                   |         |                            | \$26,938.00    |

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley.



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (813) 632-5200

**PURCHASE ORDER**  
**POHB043487**



**Order Notes**

**Procurement Quality Clauses**

A005 RIGHT OF ENTRY

A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 5/17/19 11:41 AM Dart.Guerin.Kimberley

## Pack List

Number: 143986

Date: 03-Sep-19

### To

DART AEROSPACE  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
Canada

### Ship To

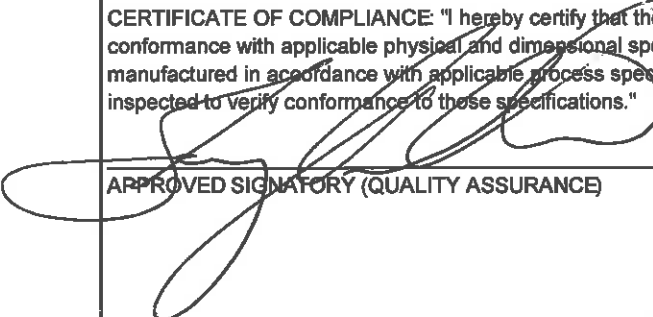
Patrick Lussier  
DART AEROSPACE  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
Canada

Ph: 613-632-5200

Fax: 613-632-5246

Ph: 613-632-5200

Fax: 613-632-5246

| Terms                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              | Ship Via          |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------|----------------|
| Net 30 days                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |                   |                |
| Quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Description                                                  |                   |                |
| 50<br>each                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Part: D2579P<br>CROSSBOLT SPACER<br>SO: 25664<br>lot #107182 | Rev: E<br>Line: 1 | PO: POHB043487 |
| <p>CERTIFICATE OF COMPLIANCE: "I hereby certify that the material described above is in conformance with applicable physical and dimensional specifications; that it was manufactured in accordance with applicable process specifications; and has been inspected to verify conformance to those specifications."</p> <p><br/>APPROVED SIGNATORY (QUALITY ASSURANCE)</p> |                                                              |                   |                |

**RECEIVED**

**SEP 11 2019**

**DART AEROSPACE LTD.**

## AS9102 Revision B First Article Inspection

## Form 1: Part Number Accountability

|                                                                                                                                           |                                                                    |                                                      |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|
| 1. Part Number<br><b>D2579P</b>                                                                                                           | 2. Part Name<br><b>CROSSBOLT SPACER</b>                            | 3. Serial Number<br><b>N/A</b>                       | 4. FAI Number<br><b>N/A</b>               |
| 5. Part Revision Level<br><b>REV. E</b>                                                                                                   | 6. Drawing Number<br><b>D2579</b>                                  | 7. Drawing Revision Level<br><b>REV. E</b>           | 8. Additional Changes<br><b>N/A</b>       |
| 9. Manufacturing Process Reference<br><b>107182</b>                                                                                       | 10. Organization Name<br><b>ETM Industries Inc.</b>                | 11. Supplier Code<br><b>N/A</b>                      | 12. P.O. Number<br><b>POHB043487, LN1</b> |
| 13. Detail FAI<br><input checked="" type="checkbox"/>                                                                                     | 14. Full FAI<br>Partial FAI<br><input checked="" type="checkbox"/> | <i>Baseline Part Number including Revision Level</i> |                                           |
| Assembly FAI<br><input type="checkbox"/>                                                                                                  | <i>Reason for Partial FAI:</i><br><b>Not Applicable</b>            |                                                      | <b>N/A</b>                                |
| a) If above part number is a detail part only, go to Field 19<br>b) If above part number is an assembly, go to the "Index" section below. |                                                                    |                                                      |                                           |
| <b>INDEX of part numbers or sub assembly numbers required to make the assembly noted above.</b>                                           |                                                                    |                                                      |                                           |
| 15. Part Number                                                                                                                           | 16. Part Name                                                      | 17. Part Serial Number                               | 18. FAI Report Number                     |
| N/A                                                                                                                                       | N/A                                                                | N/A                                                  | N/A                                       |
|                                                                                                                                           |                                                                    |                                                      |                                           |

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

2) Also indicate if the FAI is complete per Section 5.4: ☒ FAI Complete ☐ FAI Not Complete

|                             |                     |
|-----------------------------|---------------------|
| 19. Signature<br>Mike Morin | 20. Date<br>8/28/19 |
| 21. Reviewed by             | 22. Date            |
| 23. Customer Approval       | 24. Date            |

AS9102 Revision B First Article Inspection

Form 2: Product Accountability – Raw Material, Specifications and Special Process(es),  
Functional Testing

|                                      |                                                                                                                                       |                                |                                  |                                                |                                                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------------|
| 1. Part Number<br><b>D2579P</b>      | 2. Part Name<br><b>CROSSBOLT SPACER</b>                                                                                               | 3. Serial Number<br><b>N/A</b> |                                  | 4. FAI Report Number<br><b>N/A</b>             |                                                                 |
| 5. Material or Process – Name        | 6. Specification Number                                                                                                               | 7. Code                        | 8. Special Process Supplier Code | 9. Customer Approval Verification (Yes/No/N/A) | 10. Certificate of Conformance Number                           |
| MAKE FROM;<br>ALUMINUM<br>TUBING     | 6061-T6 ALUMINUM TUBING<br>0.500 OD x 0.058 WALL PER<br>WW-T-700/6 OR QQ-A-200/8 OR<br>QQ-A-225/8 (REF DART SPEC<br>M6061T6T0500W058) | N/A                            | N/A                              | N/A                                            | KAISER<br>ALUMINUM<br>FABRICATED<br>PRODUCTS:<br>Cert#F00301473 |
|                                      |                                                                                                                                       |                                |                                  |                                                |                                                                 |
|                                      |                                                                                                                                       |                                |                                  |                                                |                                                                 |
|                                      |                                                                                                                                       |                                |                                  |                                                |                                                                 |
|                                      |                                                                                                                                       |                                |                                  |                                                |                                                                 |
| 11. Functional Test Procedure Number | 12. Acceptance report number, if applicable                                                                                           |                                |                                  |                                                |                                                                 |
| Not Applicable                       | Not Applicable                                                                                                                        |                                |                                  |                                                |                                                                 |
|                                      |                                                                                                                                       |                                |                                  |                                                |                                                                 |
|                                      |                                                                                                                                       |                                |                                  |                                                |                                                                 |
| 13. Comments                         |                                                                                                                                       |                                |                                  |                                                |                                                                 |
| 14. Prepared By                      |                                                                                                                                       |                                | 15. Date                         |                                                |                                                                 |
| Mike Morin                           |                                                                                                                                       |                                | 8/28/19                          |                                                |                                                                 |

| 1. Part Number<br>D2579P      |                       | 2. Part Name<br>CROSSBOLT SPACER |                                                                                                                           | 3. Serial Number<br>N/A   |                                                     | 4. FAI Report<br>N/A       |                           |
|-------------------------------|-----------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------|----------------------------|---------------------------|
| Characteristic Accountability |                       |                                  |                                                                                                                           | Inspection / Test Results |                                                     |                            |                           |
| 5. Char. No.                  | 6. Reference Location | 7. Characteristic Designator     | 8. Requirement                                                                                                            | 9. Results                | 10. Designated Tooling                              | 11. Non Conformance Number | 14. Reference Documents   |
| 1                             | SHEET 1 of 1          | N/A                              | 6061-T6 ALUMINUM TUBING 0.500 OD x 0.058 WALL PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 (REF DART SPEC M6061T6T0500W058) | ACCEPT                    | KAISER ALUMINUM FABRICATED PRODUCTS: Cert#F00301473 | N/A                        | KAISER C of C # F00301473 |
| 2                             | SHEET 1 of 1          | N/A                              | UNITS: INCHES UNLESS OTHERWISE NOTED                                                                                      | ACCEPT                    | VERIFY                                              | N/A                        | N/A                       |
| 3                             | SHEET 1 of 1          | N/A                              | TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED                                                                       | ACCEPT                    | VERIFY                                              | N/A                        | N/A                       |
| 4                             | SHEET 1 of 1          | N/A                              | 4.07 ±0.030                                                                                                               | 4.0715                    | Vernier                                             | N/A                        | N/A                       |
| 5                             | SHEET 1 of 1          | N/A                              | / 0.500 ±0.010                                                                                                            | 0.5005                    | Vernier                                             | N/A                        | N/A                       |
| 6                             | SHEET 1 of 1          | N/A                              | 0.058 ±0.010                                                                                                              | 0.058                     | Vernier                                             | N/A                        | N/A                       |
| 7                             | SHEET 1 of 1          | N/A                              | / 0.384 (REF)                                                                                                             | 0.3845                    | Vernier                                             | N/A                        | N/A                       |

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By

Mike Morin

13. Date

8/28/19

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5573 W. WILLIS ROAD  
CHANDLER, AZ 85226

|                                                                                        |                          |                                |                                                                                              |                                                  |                      |  |
|----------------------------------------------------------------------------------------|--------------------------|--------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------|--|
| CUSTOMER PO NUMBER:<br>M49401372-1                                                     |                          | CUSTOMER PART NUMBER:<br>12276 |                                                                                              | PRODUCT DESCRIPTION:<br>Drawn Seamless Tube/Pipe |                      |  |
| KAISER ORDER NUMBER:<br>228575                                                         | LINE ITEM:<br>001        | SHIP DATE:<br>06/10/2019       | KAISER LOT NUMBER:<br>F00301473                                                              | ALLOY:<br>6061                                   | TEMPER:<br>T6        |  |
| WEIGHT SHIPPED:<br>466.000 LB                                                          | QUANTITY:<br>408.000 PCS | B/L NUMBER:<br>233811          | DIAM/ID/PT/THKNS:<br>                                                                        | WIDTH:<br>                                       | LENGTH:<br>12.000 FT |  |
| SHIP TO:<br><br>TW METALS INC<br>1235 WEST TUBEWAY DRIVE<br>CAROL STREAM, IL 60188 USA |                          |                                | SOLD TO:<br><br>T/W METALS INC<br>760 CONSTITUTION DRIVE<br>SUITE 204<br>EXTON, PA 19341 USA |                                                  |                      |  |

### Actual Physical Properties

| REFERENCE | DASH# | SAMPLE# | UTS (KSI) | YTS (KSI) | ELONG% | HARDNESS | CON%TACS | BEND |
|-----------|-------|---------|-----------|-----------|--------|----------|----------|------|
| F00301473 | 0001  | 0001    | 48.5      | 41.3      | 21.0   | N/A      | N/A      | N/A  |
| F00301473 | 0002  | 0001    | 49.4      | 43.0      | 22.0   | N/A      | N/A      | N/A  |

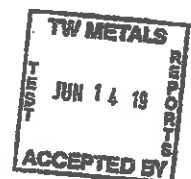
### Chemical Composition (w%), Aluminum Remainder

| LIMITS  | Si   | Fe   | Cu   | Mn   | Mg   | Cr   | Zn   | Ti   | Pb  | Bi  | Zr  | Ea   | Tot  |
|---------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|
| Maximum | 0.80 | 0.70 | 0.40 | 0.15 | 1.20 | 0.35 | 0.25 | 0.15 | NA  | NA  | NA  | 0.05 | 0.15 |
| Minimum | 0.40 | 0.00 | 0.15 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | NA  | NA  | NA  | 0.00 | 0.00 |
| 023155  | .60  | .29  | .24  | .05  | .98  | .10  | .06  | .03  | .00 | .00 | .00 | .01  | .02  |

### Applicable Requirements:

Description: OD: 0.5000"; Wall: 0.0560"; Round @  
AMS4082P AMS-WW-T-700/6C ASTM 3210-12 WW-T-700/6F  
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.  
This Product Complies to FAR BAA, DFARS BAA, FAR TAA  
COMPLIES TO DIN EN 10204 JAN 2003  
No Weld Repair. Mercury Free.

**DAS**  
**81**  
**9-89**



### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA  
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5  
TRADE AGREEMENTS)

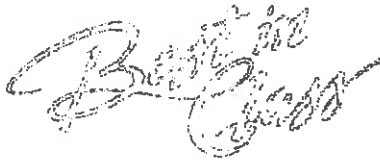
Plant Serial: 00031882  
Kaiser Order Number: 228575  
Line Item: 001

# **KAISER**

## **ALUMINUM**

**FABRICATED PRODUCTS**

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W WILLIS ROAD  
CHANDLER AZ 85226



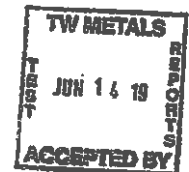
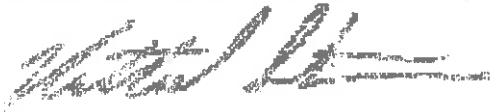
## **CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

### **CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Nathaniel Stevens, Quality Manager



CP

Plant Serial: 00031882  
Kaiser Order Number: 228575  
Line Item: 001

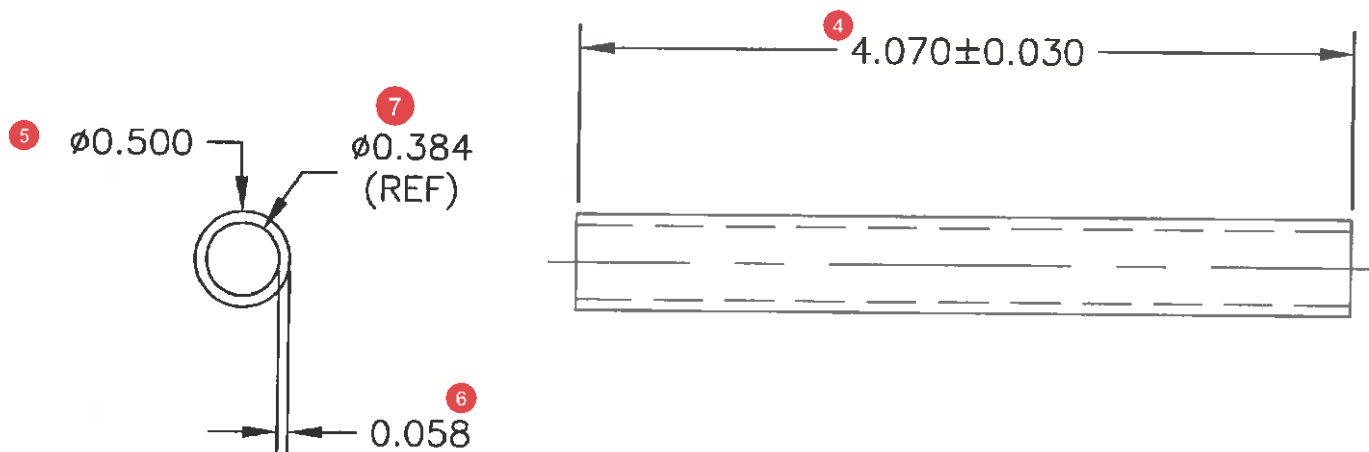




|                  |                |                                                   |                        |
|------------------|----------------|---------------------------------------------------|------------------------|
| DESIGN<br>HA     | DRAWN BY<br>DA | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA |                        |
| CHECKED<br>HA    | APPROVED<br>HA | DRAWING NO.<br>D2579                              | REV. E<br>SHEET 1 OF 1 |
| DATE<br>07.04.17 |                | TITLE<br>CROSS BOLT SPACER                        | SCALE<br>1:1           |
| A                | 96.09.16       | NEW ISSUE                                         |                        |
| B                | 96.12.05       | 0.065 WALL WAS 0.035 WALL                         |                        |
| C                | 97.02.21       | 0.058 WALL WAS 0.065 WALL                         |                        |
| D                | 99.05.19       | 4.070 LENGTH WAS 4.100 (TSR A1095)                |                        |
| E                | 07.04.17       | UPDATE NOTES                                      |                        |

RELEASED  
07.06.28

CONTROLLED COPY



**D2579 CROSS BOLT SPACER**

**D2579 CROSS BOLT SPACER**

- 1) MATERIAL: 6061-T6 TUBING PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 (REF DART SPEC M6061T6T0500W058)
- 2) FINISH: NONE
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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